

## **Clean Version of Pending Claims**

## HIGH PERFORMANCE CAPACITOR

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1. A capacitor comprising:

a plurality of conductive layers embedded in a dielectric; and

a plurality of vias coupling at least two of the plurality of conductive layers to a plurality of connection sites.

2. The capacitor of claim 1, wherein the capacitor has a thickness of between about .5 millimeter and about 1 millimeter.

3. The capacitor of claim 2, wherein the capacitor has a capacitance of between about 20 and about 30 microfarads.

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4. (Amended) The capacitor of claim 1, wherein the plurality of connection sites have a pitch of between about 100 and about 500 microns.

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5. The capacitor of claim 1, wherein the plurality of vias are plated through holes.

6. (Amended) A capacitor comprising:

a plurality of first conductive layers, each of the plurality of first conductive layers formed on a first dielectric sheet;

a plurality of second conductive layers, each of the plurality of second conductive layers formed on a second dielectric sheet, and the plurality of second conductive layers interlaced with the plurality of first conductive layers;

a pair of dielectric sheets, each of the pair of dielectric sheets having a thickness slightly greater than about 7 microns, for providing a pair of substantially rigid outer surfaces for the plurality of second conductive layers interlaced with the plurality of first conductive layers, each

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of the pair of substantially rigid outer surfaces having a plurality of connection sites operable for coupling the capacitor to a substrate using a controlled collapse chip connection (C4); and a plurality of vias coupling the plurality of first conductive layers and the plurality of second conductive layers to at least two of the plurality of connection sites.

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- 7. The capacitor of claim 6, wherein each of the plurality of first conductive layers is fabricated from a tungsten paste.
- 8. The capacitor of claim 6, wherein the number of surfaces is two.

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9. (Amended) A capacitor comprising:

a multilayered capacitor having a pair of substantially rigid outer surfaces; and a plurality of pads located on the pair of substantially rigid outer surfaces wherein at least two of the plurality of pads are capable of being coupled to a substrate using a solder bump.

- 10. The capacitor of claim 9, wherein the multilayered capacitor includes a number of parallel conductive layers and the number of pads are coupled to the number of parallel conductive layers through vias.
- 11. The capacitor of claim 10, wherein the number of conductive layers is greater than about 50.
- 12. The capacitor of claim 11, wherein the number of pads is greater than about 4000.